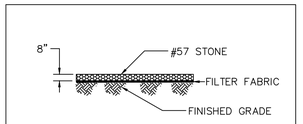
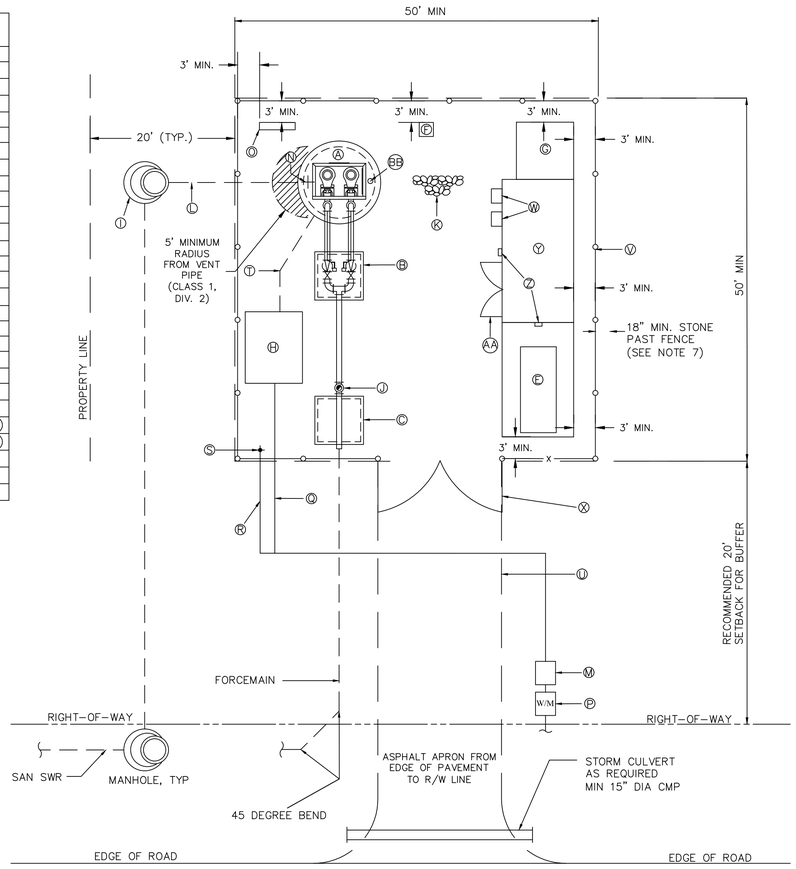
PUMP STATION COMPONENTS	
A	WET WELL
B	VALVE VAULT – 6'X6' MIN. (SEE NOTE 12)
C	METERING VAULT – 6'X6' MIN. (SEE NOTE 13)
D	CONTROL PANEL (SEE DETAIL SHEET 3)
E	GENERATOR PAD AND STANDBY GENERATOR
F	AREA LIGHT ON POLE
G	ANTENNA PAD (SEE NOTE 11)
H	ODOR CONTROL PAD (SEE NOTE 15)
I	5' RECEIVING MANHOLE
J	EMERGENCY PUMP OUT
K	#57 STONE BASE (SEE DETAIL THIS SHEET)
L	INFLUENT SANITARY SEWER LINE
M	APPROVED BACKFLOW PREVENTION DEVICE
N	6" VENT
O	JUNCTION BOX RACK ASSEMBLY (SEE DETAIL)
P	3/4" IRRIGATION METER
Q	1" WATER SERVICE TO ODOR CONTROL UNIT
R	1" WATER SERVICE TO YARD HYDRANT
S	4" FREEZE–PROOF YARD HYDRANT WITH 2" REDUCER
T	VENT PIPE TO ODOR CONTROL UNIT (SEE NOTE 15)
U	16' ALL–WEATHER GRAVEL DRIVE
V	CHAIN LINK FENCE (SEE DETAIL)
W	PUMP DISCONNECTS
X	DOUBLE SWING GATES 2 @ 7', TOTAL 14' (SEE INSET)
Y	ELECTRICAL BUILDING 200 SF (BUILDING PERMIT REQ.)
Z	WALL MOUNTED LIGHTS
AA	3' DOUBLE DOORS (OPEN OUTWARD)
BB	ULTRASONIC LEVEL TRANSDUCER WELL



STONE & FILTER FABRIC DETAIL

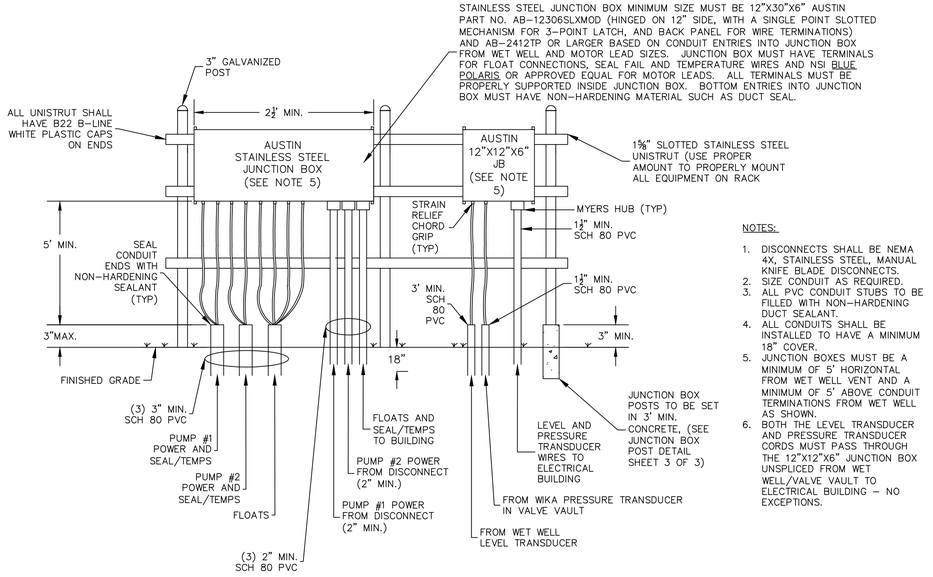


PUMP STATION SITE DETAIL

LARGER THAN 50 HP
PUMP STATION

NOTES:

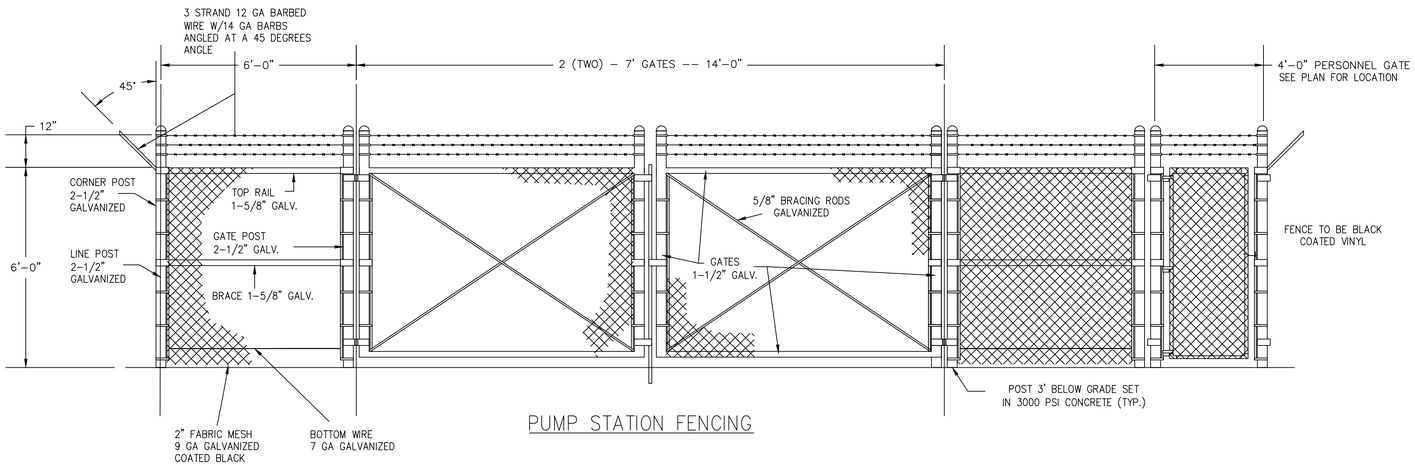
1. WET WELL INTERIOR TO RECEIVE MIN 15 DRY MILS RAVEN 405 HIGH SOLIDS EPOXY OR APPROVED EQUAL.
2. WET WELL VENT OUTLET TO HAVE ODORHOG CHARCOAL FILTER OR APPROVED EQUAL.
3. THE PUMP STATION SITE SHALL BE A MINIMUM OF 50 FEET BY 50 FEET. THE PLAN HEREIN SHOWS A RECOMMENDED 20 FOOT BUFFER FROM THE PROPERTY LINE TO THE FENCED AREA. SEE APPLICABLE JURISDICTION'S ZONING ORDINANCE FOR REQUIRED BUFFERS.
4. THE PUMP STATION SITE SHALL BE GRADED TO PROMOTE POSITIVE DRAINAGE AWAY FROM THE WET WELL. NO STORM DRAINAGE SHALL ENTER PUMP STATION SITE.
5. THE ACCESS ROAD SHALL BE #57 STONE AT A MINIMUM 8" THICK. THE ROAD SHALL BE A MINIMUM OF 16' WIDE.
6. THE ACCESS ROAD AND ENTIRE AREA WITHIN PUMP STATION FENCE SHALL BE A MINIMUM OF 2 FEET ABOVE THE 100 YEAR WATER SURFACE ELEVATION.
7. THE PUMP STATION SHALL HAVE STONE EXTENDING 18" PAST THE FENCE LINE IN ALL DIRECTIONS.
8. WET WELL LEVEL AND ALARMS SHALL BE PRIMARILY CONTROLLED BY AN ULTRASONIC LEVEL TRANSMITTER SYSTEM PER BRUNSWICK COUNTY STANDARD SPECIFICATIONS. IN THE EVENT OF FAILURE OF THE ULTRASONIC LEVEL TRANSMITTER SYSTEM THE WET WELL FLOATS WILL CONTROL THE PUMP STATION. REFER TO BRUNSWICK COUNTY PUMP STATION TECHNICAL SPECIFICATIONS AND SCADA SPECIFICATIONS.
9. LOCAL PUMP DISCONNECTS ARE REQUIRED ON THE BUILDING AS SHOWN.
10. BUILDING PLANS TO BE SUBMITTED TO BRUNSWICK COUNTY ENGINEERING DEPARTMENT AND BUILDING INSPECTIONS DEPARTMENT FOR REVIEW AND PERMITTING.
11. SEE ROHN ANTENNA DETAIL SHEET FOR ANTENNA DETAILS.
12. VALVE VAULT MINIMUM SIZE IS 6'X6'. ACTUAL REQUIRED MINIMUM SIZE DEPENDS UPON ACTUAL DISCHARGE PIPING SIZES. ALL PIPING CONNECTIONS INSIDE VALVE VAULT SHALL BE EASILY ACCESSIBLE FOR MAINTENANCE AND REPAIR.
13. IF REQUIRED, METERING VAULT MINIMUM SIZE IS 6'X6'. ACTUAL REQUIRED MINIMUM SIZE DEPENDS UPON ACTUAL DISCHARGE PIPING SIZES. ALL PIPING CONNECTIONS INSIDE VALVE VAULT SHALL BE EASILY ACCESSIBLE FOR MAINTENANCE AND REPAIR.
14. PROVIDE A MINIMUM OF 3 (THREE), 10' LONG, 3/4" DIAMETER, COPPER CLAD GROUND RODS SPACED A MINIMUM OF 10' APART, EXOTHERMICALLY WELDED AND BONDED TOGETHER WITH INSPECTION WELLS AT EACH CONNECTION. ONE GROUND ROD AT :
    A) ANTENNA TOWER
    B) ELECTRIC METER
    C) GENERATOR
15. ODOR CONTROL UNIT REQUIREMENTS (IF REQUIRED):
    A) CONCRETE SLAB – 10'X8'X3'
    B) INLET PIPE FROM WET WELL – 8" PVC MINIMUM
    C) CORE AND BOOT WET WELL FOR 8" PVC VENT PIPE TO ODOR CONTROL UNIT.
    D) SIEMENS WATER TECHNOLOGIES, ZABOCS MODEL 5000/6000 – CONTACT BRUNSWICK COUNTY PUBLIC UTILITIES FOR DETAILS
    E) ELECTRICAL POWER TO UNIT IS REQUIRED FROM ELECTRICAL BUILDING
    F) WET WELL VENT IS CAPPED IF ODOR CONTROL UNIT IS UTILIZED
16. IF BRUNSWICK COUNTY REQUIRES AN ODOR CONTROL UNIT – SLAB PLACEMENT IS SHOWN – A 2" MIN. SCH. 80 PVC CONDUIT WILL BE REQUIRED FROM THE ELECTRICAL BUILDING TO THE UNIT.
17. IF BRUNSWICK COUNTY REQUIRES A FLOW METER – METER VAULT IS SHOWN – A METERING ENCLOSURE WILL BE REQUIRED IN THE ELECTRICAL BUILDING. A 1" MIN. SCH. 80 PVC CONDUIT FROM THE METER VAULT TO THE METERING ENCLOSURE WILL ALSO BE REQUIRED.



NOTES:

1. DISCONNECTS SHALL BE NEMA 4X, STAINLESS STEEL, MANUAL KNIFE BLADE DISCONNECTS.
2. SIZE CONDUIT AS REQUIRED.
3. ALL PVC CONDUIT STUBS TO BE FILLED WITH NON–HARDENING DUCT SEALANT.
4. ALL CONDUITS SHALL BE INSTALLED TO HAVE A MINIMUM 18" COVER.
5. JUNCTION BOXES MUST BE A MINIMUM OF 5' HORIZONTAL FROM WET WELL VENT AND A MINIMUM OF 5' ABOVE CONDUIT TERMINATIONS FROM WET WELL AS SHOWN.
6. BOTH THE LEVEL TRANSDUCER AND PRESSURE TRANSDUCER CORDS MUST PASS THROUGH THE 12"X12"X6" JUNCTION BOX UNSPLICED FROM WET WELL/VALVE VAULT TO ELECTRICAL BUILDING – NO EXCEPTIONS.

ELECTRICAL JUNCTION BOX DETAIL



PUMP STATION FENCING

BCPU PUMP STATION SIGN SPECIFICATIONS

MATERIAL: ANODIZED ALUMINUM, #5052 .080 THICK
SIZE: 18" WIDE X 24" HIGH WITH 1.5" RADIUS ON ALL CORNERS
BACKGROUND: 3–M ENGINEER GRADE SCOTCHLITE REFLECTIVE FILM.
ALL COPY AND BORDER IS 3–M SCOTCHCAL VINYL FILM, SAPPHIRE BLUE WITH THE EXCEPTION OF THE PHONE NUMBER AND "AUTHORIZED PERSONNEL ONLY" WHICH ARE 3–M SCOTCHCAL. CARDINAL RED. THE ENTIRE SIGN IS OVERLAID WITH FLEXCON EVL 400 VINYL #V–29, LAMINATED AT 40 PSI. ALL LETTERING IS STANDARD BOLD CONDENSED.

PUMP STATION SIGN

Revisions

1.1 - DATED 5/29/2013
Modified PS Sign

COUNTY OF BRUNSWICK

PUMP STATION DETAILS
PUMP STATION LARGER THAN 50HP
FOR
BRUNSWICK COUNTY
NORTH CAROLINA

Date: 05-30-12
Scale: NTS
Drawn By: JDM
Checked By: WLP